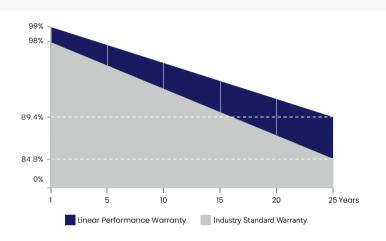


JH-M10MF120C 450~475W

22.01% Efficiency

450~475W (182x182 mm Half-Cut Cell) 120 pcs

N-TYPE Full black monofacial









KEY FEATURES HIGHLIGHTS







PRODUCT CERTIFICATIONS



Production process reliability test electro-luminance inspection



AR coating tolerance and lower resistive loss



Excellent Durability resistantto salt mist, ammonia, dust and sand, snail trail.



Reduce BOS cost increase ROI Low temp coefficient (PMax) for higher output



Wide Applications Durability against Extreme Environmental Conditions



Lower Losses Multi Busbar Technologyfor better Light trapping

JH-M10MF120C 450~475W



Electrical parameters at Standard Test Conditions (STC*) & Nominal Operating Cell Temperature (NOCT*)						
Module Type	450W / 336.6W	455W / 339.9W	460W / 343.6W	465W / 347.5W	470W / 351.1W	475W / 354.8W
Test Environment	STC / NOCT					
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	20.85	21.08	21.32	21.55	21.78	22.01
Voltage at Pmax Vmpp(V)	34.72 / 32.29	34.89 / 32.45	35.05 / 32.60	35.21 / 32.75	35.38 / 32.90	35.54 / 33.05
Current at Pmax Impp(A)	12.96 / 10.41	13.04 / 10.47	13.12 / 10.54	13.21 / 10.61	13.28 / 10.67	13.37 / 10.74
Open-circuit voltage Vco(V)	42.05 / 39.11	42.22 / 39.26	42.38 / 39.41	42.54 / 39.56	42.71 / 39.72	42.87 / 39.87
Short-circuit current Ico(A)	13.59 / 11.11	13.69 / 11.18	13.79 / 11.26	13.88 / 11.34	13.98 / 11.42	14.07 / 11.50

^{*}STC: 1000 W·m-2 irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904-

3.

GENERAL CHARACTERISTICS	
Dimensions (L / W / H)	1903 mm / 1134mm / 30 mm
Weight	24.2 kg

PACKAGING SPECIFICATIONS	
Number of modules per pallet	36
Number of pallets per 40' container	24

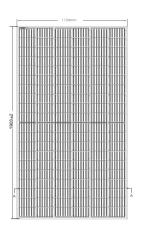
THERMAL CHARACTERISTICS			
Nominal operating cell temperature	NOCT	°C	45 ± 2
Temperature coefficient of P _{max}	γ	%/°C	-0.29
Temperature coefficient of Voc	β	%/°C	-0.25
Temperature coefficient of Isc	α	%/°C	0.045

^{*}NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature, 1 m·s-1 wind speed.

OPERATING CONDITIONS		
Max. system voltage	1500 VDC	
Max. series fuse rating*	25 A	
Operating temperature range	- 40°C to 85°C	
Max. static load, front (e.g., snow)	5400 Pa	
Max. static load, back (e.g., wind)	2400 Pa	
Max. hailstone impact (diameter/velocity)	25 mm / 23 m·s ⁻¹	
*DO NOT CONNECT FUSE IN COMBINER BOX WITH TWO OR MORE STRINGS IN PARALLEL CONNECTION.		

CONSTRUCTION MATERIALS	
Cell (material / quantity)	monocrystalline silicon / 6 x 20
Glass (material / thickness)	low-iron tempered glass / 3.2 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection degree)	3 bypass diodes / ≥ IP68
Cable (length / cross-sectional area)	±300 mm or customized length / 4 mm^2

BACK VIEW (Units: mm)







Warning: Read the Installation and User Manual in it's entirety before handling, installing and operating Solar modules.











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^{*}NOCT: open-circuit module operation temperature at 800 W·m-2 irradiance, 20°C ambient temperature, 1 m·s-1 wind speed.